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PATENT COOPERATION TREATY (PCT)
TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)

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PCT/IB02/02537

International Application No. Demande internationale nº

International Filing Date
Date du dépôt international

O1 July 2002

(01.07.02)

Geneva/Genève, 05 May 2003 (05.05.03)

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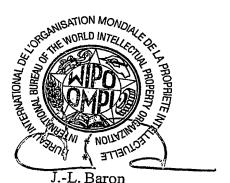
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PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

PCT / IB 0 2 / 0 25 3 7 International Application No.
O 1 JULY 2002 (0 1. 07. 02)
INTERNATIONAL BUREAU OF WIPO Name of Post-international Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) 99000104/CHE

	(if desired) (12 characte	ers maximum) 99000104/CHE
Box No. I TITLE OF INVENTION A system and method for delivering representati	ve media objects	of a broadcast media stream to
a mobile terminal		
	n is also inventor	T
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	he address indicated in this	Telephone No.
NOKIA CORPORATION		Facsimile No.
Keilalahdentie 4		Teleprinter No.
FIN-02150 Espoo		
Finland		Applicant's registration No. with the Office
State (that is, country) of nationality: Finland	State (that is, country) Finland	of residence:
This person is applicant all designated all designated for the purposes of:	d States except tates of America	the United States of America only the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	IER) inventor(\$)	
Name and address: (Family name followed by given name; for a legal entil The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence MÄKIPÄÄ, Mikko Airoranta 9 A FIN-00830 Helsinki	re address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
Finland		Applicant's registration No. with the Office
State (that is, country) of nationality: Finland	State (that is, country) Finland	of residence:
This person is applicant all designated all designated for the purposes of:	d States except ates of America	the United States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated or	n a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR	CORRESPONDENCE
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities	n behalf as:	agent common representative
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of col	y, full official designation. untry.)	Telephone No. +45 70 20 00 33
AWAPATENT A/S Tegiholm Alié 13		Facsimile No. +45 70 20 04 33
DK-2450 København SV		Teleprinter No.
Denmark	1	1 Elephines 110.
,		Agent's registration No. with the Office
Address for correspondence: Mark this check-box where n space above is used instead to indicate a special address to w	o agent or common repr	resentative is/has been appointed and the

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PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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PCT International Appli	/ IB 0 cation No.	2 /	0 2 5	37	
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International Filing Date

(0 1. 07.02)

INTERNATIONAL BUREAU OF WIPO
PCT International Application
Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) 99000104/CHE

	(ij desired) (12 charac	ters maximum) 93	7000 104/CHE
Box No. I TITLE OF INVENTION			
A system and method for delivering represent	itative media objects	of a broadca	st media stream to
Box No. II APPLICANT This po	erson is also inventor		
Name and address: (Family name followed by given name; for a lega The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of res	v of the address indicated in this	Telephone No.	
NOKIA CORPORATION		Facsimile No.	
Keilalahdentie 4		Teleprinter No.	
FIN-02150 Espoo Finland			
, i ii ii ai iu		Applicant's regi	stration No. with the Office
State (that is, country) of nationality: Finland	State (that is, country) Finland	of residence:	
This person is applicant for the purposes of: all designated lall designated States all designated the United States.	nated States except ed States of America	the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FU			
Name and address: (Family name followed by given name; for a legal The address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of resi	of the address indicated in this	This person is:	
MÄKIPÄÄ, Mikko		applican	•
Airoranta 9 A		٠٠ بــــا	at and inventor
FIN-00830 Helsinki Finland		inventor is marke	only (If this check-box d, do not fill in below.)
Triana		Applicant's regis	tration No. with the Office
State (that is, country) of nationality: Finland	State (that is, country) Finland	of residence:	
This person is applicant all designated for the purposes of:		the United States of America only	the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicate	ed on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE	VE; OR ADDRESS FOR	CORRESPONDI	ENCE
The person identified below is hereby/has been appointed to ac of the applicant(s) before the competent International Authorit	ies as:	agent	common representative
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of	entity, full official designation. f country.)	Telephone No. +45 70 20 0	10.33
AWAPATENT A/S		Facsimile No.	70 00
Teglholm Allé 13		+45.70 20 0	4 33
DK-2450 København SV	Ī	Teleprinter No.	
Denmark			
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Address for correspondence: Mark this check-box when space above is used instead to indicate a special address to	re no agent or common repreto which correspondence sh	esentative is/has be	een appointed and the
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Sheet ?	Vo.		2.	
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Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not	be included in the request.			
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is ANTTILA, Akseli Pajalahdentie 6 B 25 FIN-00200 Helsinki Finland State (that is, country) of nationality:	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of residence:			
Finland This person is applicant all designated all designated serious all designated seri	Finland States except To the Upited States the States indicated in			
for the purposes of:				
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is KOPRA, Toni Sääritie 11 B 6 FIN-03250 Ojakkala Finland	address budicated in this is indicated below.) applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: Finland	State (that is, country) of residence: Finland			
This person is applicant all designated all designated for the purposes of:	States except ses of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is	address indicated in this \			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated all designated for the purposes of:	States except es of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is	address indicated in this			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated all designated for the purposes of: States all designated the United States	States except the United States the States indicated in the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2002)

Bo	X No	. V DESIGNATION OF STATES	š	M	fark the applicable check-boxes below	; at l	leasi	one must be marked.
TI	e foll	owing designations are hereby made	und	er R	ule 4.9(a):			
	Regional Patent AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired,							
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QX.	EA	Patent Convention and of the PCT	tan,	TM	Turkmenistan, and any other State v	vhic	h is	a Contracting State of the Eurasian
IX.	EP	Republic, DE Germany, DK Denm IE Ireland, IT Italy, LU Luxembour	ark g, N	, ee (C n	n, BC Bulgaria, CH & LI Switzerlan Estonia, ES Spain, FI Finland, FR Monaco, NL Netherlands, PT Portugal e of the European Patent Convention	Fran , SE	sw	GB United Kingdom, GR Greece, eden, SK Slovakia, TR Turkey, and
X	OA	TD Chad, TG Togo, and any other	tori: Stat	al G te wh	tinea, GW Guinea-Bissau, ML Mai tich is a member State of OAPI and a	i, M a Co	R N otra	Sauritania, NE Niger, SN Senegal, cting State of the PCT (if other kind
ŀ		of protection or treatment desired, s	peci	יס על	a dotted line)	• • •	•••	
N	ation:	al Patent (if other kind of protection	or	ireat	ment desired, specify on dotted line):			
X	AE	United Arab Emirates	X	GM	Gambia	X	ΝZ	New Zealand
M	AG.	Antigua and Barbuda	X	HR	Croatia			
X	AL	Albania	X	HU	Hungary		PH	Philippines
X	AM	Ammenia	K	ID	Indonesia	K	PL	Poland
	AT.	Austria	X	IL	Israel	X	PT	Portugal
		Australia				K	RO	Romania
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		Bosnia and Herzegovina		JP	Japan	i Ori	~~	7,7,2
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		Canada	X	KZ	Kazakhstan	K	SŁ	Sierra Leone
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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)								

Form PCT/RO/101 (second sheet) (July 2002)

Sheet	Nο	4

Bo	x No. VI PRIORITY	CLAIM					
Tb	The priority of the following earlier application(s) is hereby claimed:						
	Filing date	Number analisation	Where earlier application is:				
L	of earlier application (day/month/year)	of earlier application	national application: country	regional application:* regional Office	international application: receiving Office		
ite	ro (1)						
ite	m (2)						
įte	m (3)						
ite	n (4)						
ite	n (5)						
	Further priority claims	are indicated in the Suppleme	ntal Box.				
if U	e receiving Office is reque the earlier application was j	ested to prepare and transmit t filed with the Office which for t	o the International Bureau the purposes of this interna	a certified copy of the e tional application is the r	arlier application(s) (only ecciving Office) identified		
	all items item ((1) item (2)	item (3) item i	(4) item (5)	other, see Supplemental Box		
* N Ind	There the earlier application Strial Property or one Mo	on is an ARIPO application, in tember of the World Trade Org	dicate at least one country ganization for which that e	party to the Paris Conve arlier application was fil	ntion for the Protection of ed (Rule 4.10(b)(ii)):		
Box No. VII INTERNATIONAL SEARCHING AUTHORITY							
				Literatural description and the second secon	and the second of the		
	5 0	rching Authority (ISA) (if the the Authority chosen; the two-	- •	earching Aumorities are	сотрецени по сахгу ош инг		
Rec	uest to use results of ea	rlier search; reference to th		arch has been carried ou	t by or requested from the		
	International Searching Authority): Date (day/month/year) Number Country (or regional Office)						
Box	No. VIII DECLARAT	IONS					
The chec	The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations						
	Box No. VIII (i)	Declaration as to the identity	of the inventor		;		
X	Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :					
	Box No. VIII (iii)	Declaration as to the applic date, to claim the priority or		e international filing	:		
X	Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America) : 1					
	Box No. VIII (v)	Declaration as to non-prejud	licial disclosures or except	tions to lack of novelty	: .		

Form PCT/RO/101 (third sheet) (March 2001; reprint January 2002)

Sheet No. . . 5 . . .

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.
Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:
in relation to the present international patent application
NOKIA CORPORATION is entitled to apply for and be granted a patent by virtue of the following:
(ii) NOKIA CORPORATION is entitled as employer of the inventors, Mikko Mäkipää, Akseli Anttila and Toni Kopra.
(ix) this designation is made for the purposes of: (a) all designations [except the designation of the United States of America]
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This declaration is continued on the following sheet. "Continuation of Box No. VIII (ii)"

Form PCT/RO/101 (declaration sheet (ii)) (March 2001; reprint January 2002)

Sheet No. . 6

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v)
(in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

14) THE PURPOSE OF SHE OF SHEET OF	, may			
I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and f	or which a patent is sought.			
his declaration is directed to the international application of which it forms a part (if filing declaration with application).				
This declaration is directed to international application No. PCT/				
I hereby declare that my residence, mailing address, and citizenship a				
I hereby state that I have reviewed and understand the contents of the constant of said application. I have identified in the request of said application, i and I have identified below, under the heading "Prior Applications," I Organization, day, month and year of filing, any application for a paten States of America, including any PCT international application designation a filing date before that of the application on which foreign process.	in compliance with PC1 Rule 4.10, any claim to to eight pricity, by application number, country or Member of the World Trade it or inventor's certificate filed in a country other than the United ting at least one country other than the United States of America, niority is claimed.			
Prior Applications:				
I hereby acknowledge the duty to disclose information that is k 37 C.F.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the c	rial information which decame available detween the ming date			
I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made a made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	with the knowledge that willful false statements and the fike so 1001 of Title 18 of the United States Code and that such willful			
Name: Mikko Mäkipää				
Residence: Helsinki, Finland (city and either US state, if applicable, or country)				
Mailing Address: Airoranta 9 A				
FIN-00830 Helsinki				
Citizenship: FIN				
Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)			
Name: Akseli Anttila				
Residence: Helsinki, Finland (city and either US state, if applicable, or country)				
Mailing Address: Pajalahdentie 6 B 25	***************************************			
FIN-00200 Helsinki				
Citizenship: FIN				
Inventor's Signature:	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)			

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Form PCT/RO/101 (declaration sheet (iv)) (March 2001; reprint January 2002)

Sheet No. ...7...

Continuation of Box No. VIII (i) to (v) DECLARATION If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII" (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.
Continuation of Box No. VIII (iv)
Name: Toni Kopra Residence: Ojakkala, Finland Mailing address: Sääritie 11 B 6, FIN-03250 Ojakkala Citizenship: FIN
Inventor's signature:
Date:
,
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Form PCT/RO/101 (continuation sheet for declaration) (March 2001; reprint January 2002)

Sheet No. . . 8.

Box No. IX CHECK LIST; LANGUAGE OF FILING		
This international application contains: (a) the following number of sheets in paper form: request (including declaration sheets) : 8 description (excluding sequence listing part) : 22 claims : 8 abstract : 1 drawings : 4 Sub-total number of sheets : 43 sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) : Total number of sheets : 43 (b) sequence listing part of description filed in computer readable form (i) only (under Section 801(a)(i)) (ii) in addition to being filed in paper form (under Section 801(a)(ii)) Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in right column): Figure of the drawings which should accompany the abstract: Box No. X SIGNATURE OF APPLICAN	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item): 1. fee calculation sheet 2. original separate power of attorney 3. original general power of attorney 4. copy of general power of attorney; reference number, if any: .02/Q021 5. statement explaining lack of signature 6. priority document(s) identified in Box No. VI as item(s): 7. translation of international application into (language): 8. separate indications concerning deposited microorganism or other biological material 9. sequence listing in computer readable form (indicate also and number of carriers (diskette, CD-ROM, CD-R or other international application) (ii) copy submitted for the purposes of international sequence listing and diditional copies including, where application (iii) only where check-box (b)(i) or (b)(ii) is marked in column) additional copies including, where application copy for the purposes of international search under the copy or copies with the sequence listing paramentioned in left column 10. other (specify): Language of filing of the international application: English 1. AGENT OR COMMON REPRESENTATIVE ming and the capacity in which the person signs (if such capacity is not obvious from	type type arch aleft able, ander t
Christian Hauge AWAPATENT A/S		
Towards Office was also		
Date of actual receipt of the purported international application: Corrected date of actual receipt due to later be	1 JULY 2002 (0 1. 07. 02)	Drawings:
timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		not received:
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid	
For International Bureau use only		
Date of receipt of the record copy by the International Bureau;		

Form PCT/RO/101 (last sheet) (March 2001; reprint January 2002)

1

A SYSTEM AND METHOD FOR DELIVERING REPRESENTATIVE MEDIA OBJECTS OF A BROADCAST MEDIA STREAM TO A TERMINAL

Field of invention

5 This invention relates to a system and method for delivering media objects associated with a broadcasted media stream to one or more terminals.

Background of invention

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Media streams such as a radio or television transmissions, videos, or DVDs are generally controlled and presented by a communication system such as a radio or television receiver, a video recorder or DVD player. A user may control the presentation of the media stream by directly operating the communication device so as to select a particular media stream or particular sequence of the particular media stream. The known media streams and known communication devices are satisfactory in the presentation of a media stream in a sequential fashion. However, when it comes to commercial utilisation of the media stream the known communication systems may be further improved in order to serve multi-technical communication systems, i.e. combinations of communication systems, and to fulfil future customer demands for versatility of their communication devices and media stream products.

Summary of the invention

An object of the present invention is to provide a system and method for providing media objects of a media stream, which media objects are created for and made available to a user of a communication system during a primary media stream experience.

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A further object of the present invention is to capture a frame of a media stream of a broadcast or video transmission to a terminal.

10 A particular advantage of the present invention is provision of editing capability for editing a frame of a media stream so as to personalise the frame.

A particular feature of the present invention relates to the provision of a "capture of the moment" or "record" hot key in a terminal enabling a user to download a frame from a plurality of frames of a media stream.

- further objects, advantages and features, which will be evident from below detailed description, is accomplished by a solution in accordance to a first aspect of the present invention by a system for delivering a media object to one or more terminals, which media object is associated with a media stream

 25 broadcasted to one or more media stream receivers, said system
 - (a) a broadcasting network for connecting to said one or more media stream receivers;
- (b) a first communications network for connecting to said one or more terminals; and
 - (c) a communication device connecting to said broadcasting network and broadcasting said media stream to said one or more media stream receivers, and connecting to said

comprising:

communications network and communicating said media object to said one or more terminals.

The term "one or more" should in this context be construed as a, an, at least one, at least a single.

The media stream according to the first aspect of the present invention may comprise a television and/or radio transmitted show, drama, movie, sports game, news, or any combination thereof. Thus any type of television and/or radio transmission may constitute a media stream.

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In addition, the media object may comprise a text, a picture, a series of pictures, a video, a series of videos, an audio recording, a series of audio recordings, or any combination thereof. Hence the media object may comprise any related or unrelated information in regards to the media stream and may be presented in any type of readable format.

The terminal according to the first aspect of the present invention may comprise a phone, a cellular or mobile phone, a personal computer, a television, a set top box, a multimedia terminal, a personal office assistant or any combination thereof, and the one or more media stream receivers may comprise a set top box, multimedia terminal, television receiver, television, radio receiver or any combination thereof.

The communication device according to the first aspect of the present invention may broadcast to the one or more media stream receivers by a cable television network, a satellite television network, a radio frequency television network, a telephone network, a powerline network, a radio network or any

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combination thereof. Thus any type of network may generally be applied for broadcasting of the media stream, i.e. various types of providers capable of transmitting the media stream to the receivers may be used. This provides for a system, which is very versatile.

The communication device according to the first aspect of the present invention may be adapted to transmit digitally coded communication such as digital video broadcasting and/or digital audio broadcasting. The digitally coded signals provide better transmission quality and enables the communication device to forward additional information to a receiver.

The first communications network according to the first aspect
of the present invention may comprise a telephone wire network,
a cable television network, a powerline network, a computer
network, a wireless telephone network, or any combination
thereof. The communication between the communication device and
the one or more terminals may utilise a wide variety of network
types and wide variety of combinations of network types
depending upon which provider is selected.

The communication device according to the first aspect of the present invention may comprise a broadcasting unit for broadcasting the media stream to the one or more media stream receivers, a management unit for providing the media object to the one or more terminals, and a second communications network for interconnecting the broadcasting unit and the management unit. The broadcasting unit may comprise a marker for generating a media stream identification tag associated to the media stream, which media stream identification tag may comprise information regarding duration of the media stream, lapsed time of the media stream, broadcasting schedule for the

media stream, broadcasting channel for the media steam, or any combination thereof. By tagging the media stream with an identification mark any specific media objects relating to the media stream may be connected to the media stream in the communication device so as to provide a tool for managing the media objects.

Further, the broadcasting unit may be adapted to perform a continuous communication of data regarding the media stream information tag, an updating communication of revision of 10 specific data regarding the media stream information tag, a communication based on schedule of the media stream, or any combination thereof. Any of the above reference communications are advantageous since they all serve a specific purpose. Continuous communication enables the broadcast unit to 15 continuously correct for changes in the broadcast scheduling of the media stream and to continuously create new media objects relating to the media stream. Updating communication similarly provides the broadcasting unit with the possibility to adjust for changes in the broadcast scheduling of the media stream. 20 Finally, the scheduled communication such as predefining intervals in which the broadcast unit may communicate with the management unit provides a well structured and coordinated communication form.

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The management unit according to the first aspect of the present invention may comprise an application program interface for receiving the media object, a database for storing the media object and the media stream identification tag, a real time publishing interface for enabling real time publishing of the media object, and a user interface for providing the one or more terminals access to select the media object stored in the database through the first communications network. The various

interfaces may be implemented in a plurality of format so as to support a wide range of communication standards.

The user interface may be adapted to respond to a request from the one or more terminals and to generate a media object list of media objects, which are accessible for the one or more terminals.

The second communications network according to the first aspect of the present invention may comprise local area network, metropolitan area network, wide area network, or inter-network such as the Internet, a dedicated communication line, or any combination thereof. The first aspect of the present invention may therefore be implemented for any particular network being wireless or hardwire.

The system according to the first aspect of the present invention may further comprise a billing unit for managing billing transactions for the one or more terminals' requests for the media object and for generating invoices to the one or more terminals in accordance with the billing transactions. The transactions may be recorded so as to present invoices to users of the system.

In addition, the system may further comprise a third communications network for interconnecting the billing unit and the management unit and a fourth communications network for interconnecting the billing unit and the one or more terminals. The third and fourth communications network comprises local area network, metropolitan area network, wide area network, or inter-network such as the Internet, a dedicated communication line, a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone

network, or any combination thereof. As described above the network type is not limited since the system may be incorporating into any known network types.

- The term broadcasting network is to be construed as a cable TV network, a satellite TV network, a radio frequency TV network, a radio cable or terrestrial network, and/or any TV or radio network utilising digital transmission techniques.
- 10 The communication device according to first aspect of the present invention may broadcast the media stream and the media object through the broadcasting network and the one or more media stream receivers may connect to the first communications network and communicate the media object to the one or more terminals. The media object may be broadcast through a digital television network as part of the media stream such as through super text TV. A digital receiver such as a set-top box may store the media objects and communicate them subsequently to the one or more terminals.

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The above objects, advantages and features together with numerous further objects, advantages and features which will be evident from below detailed description is accomplished by a solution in accordance to a second aspect of the present invention by a method for delivering a media object to one or more terminals, which media object is associated with a media stream broadcasted to one or more media stream receivers, and said method comprising:

- (a) associating said media object with said media stream by means of a communication device;
- (b) broadcasting said media stream to said one or more media stream receivers through a broadcasting network by means of said communication device; and

(c) communicating said media object to a requesting terminal of said one or more terminals through a communications network by means of said communication device.

The method according to the second aspect of the present invention may further comprise defining a parameter for the media object by means of the communication device and the parameter defining a media object format such as audio, video, image, or any combination thereof, a technical format, an alternative task such as full view or close-up, a terminal requirement, or any combination thereof. By defining the parameter the method provides for an effective means for selecting those media objects which are readable to a specific terminal.

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The method according to the second aspect of the present invention may further comprise packaging a set of media objects associated with the media stream and publishing the set of media objects to the one or more terminals by means of the communication device. The packaging may comprise linking the media object to the media stream so that the media object is attached to a broadcasting time line of the media stream and defining the availability of the media object in accordance with the broadcasting time line of the media stream. Obviously, some connection between the media stream and the media objects is required in order to manage a media object relative to a terminal and relative to a media stream.

The packaging may further comprise defining a media object based on a key moment of the media stream as an elapsed time from the start of the media stream, defining the media object's availability prior, during and after broadcast of the media stream, defining an additional time period during which the

media object's availability is announced but not available for transfer, or any combination thereof. Any desired part of a media stream may be utilised for the creation of a media object associated with the media stream.

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The method according to the second aspect of the present invention may further comprise managing the set of media objects by means of the communication device, and the managing comprises controlling availability of each media object of the set of media objects in accordance with the broadcast time line for the media stream. The availability of the media object is controlled so as to provide a constant high level of current interest in the media objects. This motivates a user to further use the method for downloading more media objects.

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The method according to the second aspect of the present invention may further comprise providing the one or more terminals access to the available media objects and enabling a requesting terminal of the one or more terminals to transfer any specific available media object. The providing may comprise presenting a user interface to the one or more terminals, which user interface lists the set of media objects. The user of a terminal may thus select from a set of media objects associated with any particular media stream. The number of media objects in a set may vary in accordance with the popularity of the media stream.

The method according to the second aspect of the present invention may further comprise generating a media object by means of the communication device in response to a request from the one or more terminals. The request is accomplished by a user of a terminal depressing a hotkey for capturing a key moment of the media stream. The user interface presents a

specific list for a specific terminal, which specific list comprises a media object, which is readable by the specific terminal. The user of a terminal may thus by depressing a button on his terminal initiate the creation of a media object to a media screen. In this way the user may select any frame or sound he desires from the media stream.

The method according to the second aspect of the present invention may further comprise purchasing the media object from the communication device by means of the one or more terminals, by purchasing the media object the media object is transferred to the one or more terminals. Since media streams may be subject to royalties the user of the method should be at least self supporting or part of a business.

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The method according to the second aspect of the present invention may further comprise recording and processing of the transfer of the media object to the one or more terminals by means of a transaction processing device. Payment of the utilised services may be monitored in a wide variety of ways thus the method opens the possibility for implementation in many circumstances.

The method according to the second aspect of the present invention may further comprise identifying the media object format by means of the one or more terminals, the identifying revealing information such as supporting application needed, additional rights pertaining to the media object, forwarding limitations associated with the media object, or any combination thereof.

The method according to the second aspect of the present invention may further comprise providing privileges associated

with the media object and with the one or more terminals. The privileges enable the one or more terminals to copy or forward the media object in accordance with each of the one or more terminals' number of purchases of said media object. In addition or alternatively, the may privileges disable the one or more terminals to copy or forward said media object. Further in addition or alternatively, the privileges may disable the one or more terminals to copy or forward more than the one or more terminals to copy or forward more than the one or more terminals' number of purchases. It is important to monitor and restrict the user of the terminals in exploiting the media objects beyond the rights pertained thereto. Hence the method according to the second aspect of the present invention may ensure against this type of exploitation. The privileges may be incorporated in the system according to the first aspect of the present invention.

The method according to the second aspect of the present invention may further incorporate any features of the system according to the first aspect of the present invention.

Brief description of the drawings

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The above, as well as additional objects, features and advantages of the present invention, will be better understood through the following illustrative and non-limiting detailed description of preferred embodiments of the present invention, with reference to the appended drawings, wherein:

Figure 1 shows a system according to a first embodiment of the present invention;

Figure 2 shows an example of the methodology used by the system according to the first embodiment of the present invention;

Figure 3 shows an overall view of key components of the system according to the first embodiment of the present invention; and

5 Figure 4 shows a flow chart of method according to a second embodiment of the present invention.

Detailed description of preferred embodiments

In the following description of the various embodiments, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration various embodiments in which the invention may be practiced. It is to be understood that other embodiments may be utilized and structural and functional modifications may be made without departing from the scope of the present invention.

A communication system according to a first embodiment of the present invention is shown in figure 1 as designated in its entirety by reference numeral 10.

The communication system 10 enables a user of a terminal 12, such as a cell or mobile phone, during a media stream broadcast to capture a media object. A media object should in this context be construed as a frame of a media stream, a series of frames of a media stream, a video sequence of a media stream, a part of a sound track of a media stream, or any combination thereof.

The communication system 10 further comprises a display 14 for displaying a broadcasted media stream 16. The display 14 is communicating with a receiver 18, such as an external or internal digital set-top box, a digital receiver, or an

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analogue receiver. The receiver 18 may in an alternative embodiment of the present invention further communicate with a video recorder, a DVD player, a radio receiver, a sound amplifier, or any combination thereof.

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The media stream 16 is broadcasted through a broadcasting network such as a cable television network, a satellite television network, a terrestrial television network, a telephone network, a powerline network, a cable or terrestrial radio network or any combination thereof.

The terminal 12 may comprise a hot key 20 enabling a user of the terminal 12 to select, by depressing the hot key 20, a media object 24 associated with the media stream 16. Thus, a 15 user of the terminal 12 watching a television show may during the show depress the hot key 20 and thereby request a media object to be transferred through a communications network, such as a wired or wireless telecommunication network. In addition, the user of the terminal 12 may select any part of the media stream 16 such as any particular audio tracks from the media stream 16.

The communication system 10 enables turning existing mass media properties into further digital merchandise by utilising the 25 familiarity and appeal of characters, events and themes songs of particular television shows, movies or radio programs for media objects to be incorporated into a user's terminal 12.

The media object 24 is created as a representation of a 30 particular scene of a television show, however, the media object 24 may be any key moments of television shows, movies or radio programs such as high points of the plot line (Ross and Rachel's first kiss in the television series "friends"), a

clever punch line in a television show, a particular comment by a character in a movie or television show, a goal scored in any sports game. The media object 24 may be a video clip, a picture, a series of pictures, animations, soundtracks or the like.

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The media object 24 when transferred onto the terminal 12 may be used as any personal terminal enhancement such as background images, ringing tones, messages, or logos. The terminal 12 comprises an editor for enabling a user of the terminal 12 to edit the media object 24 in accordance with any personal preferences. The terminal 12 further comprises a memory for storing of the media object 24 so that the user may further communicate the media object 24 per se or an edited version of the media object 24 to other terminals through a wireless telecommunications network and/or utilising a multimedia messaging service.

An example of the methodology is shown in figure 2. A communication system designated in its entirety by reference numeral 40 comprises a television set 42 having a monitor 44 and a receiver 46 and displaying a specific media stream 48, and comprises a communication device 47 for broadcasting the specific media stream to the receiver 46 and for providing media objects related to the specific media stream to any number of terminals.

A first user is watching the media stream 48 on the television set 42 and desires to transfer a media object 50 associated with the media stream 48 onto a first terminal 52, which transfer is shown as an arrow 54. The first user captures this media object 50 by using the first terminal 52 and pressing the "capture the moment" hot key 56. The first user may then want

to share the media object 50 with a second user of a second terminal 58 and hence in accordance with a set of privileges associated with the first user communicate the media object 50 by utilising for example a multimedia messaging service (MMS), which communication is shown in figure 2 as an arrow 60. The second user of the second terminal 58 may subsequently be using the media object for example as a personal background on his/her terminal or in accordance with a set of privileges associated with the second user distribute it further by sending for example a new e-mail with the media object attached with the e-mail transmission.

The utilisation of the multimedia messaging service for forwarding or sharing the media object may be incorporated in the terminal as a application program presenting a menu enabling the user to activate a transfer of the media object. In addition, the application program may open a recipient window to be filled by the user of the terminal prior to activating a transfer of the media object and in this process offering the user the use of the address book of the terminal. Further, the application program may comprise a editing facility enabling the user of the terminal to edit in the media object prior to activating the transfer of the media object. The editing facility the user may add comments to the media objects. Furthermore, the application program may enable the introduction of an advertisement to be associated and forwarded with the media object. This renders it possible to have messages partly of fully financed by the advertiser who wants to sponsor the media object.

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Both the first and second terminal 52 and 58 provide the first and second user with the possibility to edit the media object

50 so as to personalize a message in conjunction with the transmission of the media object from one terminal to the next.

Figure 3 shows an overall view of the key components of the communication system 10. The communication system 10 comprises a broadcast unit 80 for broadcasting a media stream to one or more television receivers in any given region 82. The broadcast of the media stream is shown as a first arrow 84 and may be accomplished by wireless, cable or satellite transmission. The region 82 may be defined by a cable television network or a plurality of individual television receivers.

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The broadcast unit 80 comprises a marker 86 for continuously generating an associated media stream identification tag to a specific media stream to be aired on a specific transmission date and time. The tag may contain further information regarding duration of the specific media stream, lapsed time of the specific media stream and transmission channel.

The broadcast unit 80 communicates the associated media stream identification tag to a management unit 88 through a first communications network 90 such as local area network, metropolitan area network, wide area network, or inter-network such as the Internet, or alternatively on a dedicated line. The management unit 88 comprises an application program interface 92 for receiving one or more media objects 94 associated with specific media stream identification tags and connects to a database 96 for storing the one or more media objects 94 together with the associated media stream identification tags.

The broadcast unit 80 may perform a continuous transmission of data regarding a media stream information tag, an updating

stream information tag, or a transmission based on a scheduled program listing.

Furthermore, the management unit 88 comprises a real time publishing interface 98 enabling real time publishing of media objects. That is, enabling publishing of the one or more media objects 94 during the broadcast unit's broadcast of an associated media stream.

In addition, the management unit 88 comprises an interface processor 100 for providing one or more terminals 102 access to the one or more media objects 94 stored in the database 96 through a wireless communications network 104. The interface processor 100 responds to a call from one or more of the terminals 102 and generates a media object list of the one or more media objects that are accessible for the specific one or more terminals 102 at that specific date and time. The access of the one or more media objects 94 may thus be limited to a specific time period so as to create media objects which are dependent on the transmission of a media stream.

The management unit 88 further communicates with a billing device 106 through a second communications network 108, which may be any of the above types mentioned with reference to the first communications network 90, it may in fact be the same communications network. The billing device 106 manages transactions of media objects, accounts of the one or more terminals 102, and generates invoices. The billing device 106 may further communicate with the one or more terminals 102 through a third communications network 110, which as before may be any of the above types mentioned with reference to the first and second communications network 90 and 108 in combination with a wireless communications network.

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In an alternative embodiment of the management unit 88 communicates the media objects through the second communication network 90 to the broadcast unit 80, which communicates the media objects to the one or more television receivers or settop box in the region 82 together with the media stream. The media objects may be communicated as a super text TV object. The one or more television receivers communicate the media objects to the terminals through a wireless communications network 105.

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Figure 4 shows a flow chart of a method according to a second embodiment of the present invention, which method is designated in its entirety by reference numeral 120. The method 120 comprises a start 122 for performing initialisation of the method 120. The start 122 involves establishing an interface for media object generating devices, such as the broadcast unit 80 described with reference to figure 3, and an interface for a terminal, such as the one or more terminals 102 described with reference to figure 3.

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The media object generating devices utilise a management unit, such as described with reference to figure 3 as the management unit 88, for establishing media objects 124 on or under the control of the management unit. The media object generating devices use an original media stream content for creating the media objects associated with said original media stream. The media objects may be key frames or key sounds, which define a special moment of the media stream. The media objects are created prior to broadcasting the media stream, which broadcasting may be performed one or more times in one or more regions or in one ore more television network. However, the media objects may, in addition, be created during a broadcast of an associated media stream, for example during live sports

broadcasts, which enable a terminal to select representative frames of the media stream (sports broadcast) such as a goal scored during a soccer match.

The media objects may be implemented in any format such as in Synchronized Multimedia Integration Language (SMIL) format, any JPEG format, any Graphics Interchange Format (GIF), audio or digital audio formats, Audio IFF, Computer Graphics Metafile, TIFF, BIFF, bmp, Clear, FITS, NFF, OFF, PCX, PNG, TGA, XBM, mod, any Moving Picture Experts Group (MPEG) format, Musical Instrument Digital Interface, PICT, PNG, Portable Document Format (PDF), Portable Network Graphics, Portable Pixmap, progressive coding, Quicktime, RIFF, Self Extracting Archive, sequential coding; server-parsed HTML, sprite, Tagged Image File Format, targa, Targa Graphics Adaptor, thumbnail, wav, WebCGM, wireless bitmap, xpm or a different frame rate video.

In an alternative embodiment of the present invention the media objects are created automatically or semi-automatically.

Defining the parameters 126 is achieved by the management unit. The parameters of the media objects may define media object type (audio, video or image), technical format (as described above e.g. JPEG), alternative tasks (full view, close-up), terminal requirements (e.g. Nokia 6100 series). In addition, textual matter or preview versions may be included in the media objects.

When the management unit has received all necessary information regarding media objects associated with a specific media stream the management unit packages the media objects as a set of media objects during packaging 128. The packaging 128 comprises associating the media objects to a specific media stream so

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that each media object are attached to the time line of the media stream by defining the availability of the media object in accordance with the time line of the media stream. This may be achieved by defining the key moment as elapsed time for the start of the media stream (e.g. media stream title, media object identification tag, and media object title - second goal), defining the media object's availability prior, during and after broadcast of the media stream, as well as defining an additional time period during which the availability of a media object is announced but not available for transfer (e.g. advertised prior to broadcast).

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When the packaging 128 is accomplished the management unit initiates a publishing 130 of the media object or the set of media objects so that the media object or set of media objects are associated with the specific media stream.

During the media stream broadcast the management unit controls the availability of the media object or the set of media objects by managing 132 availability in accordance with the pre-defined timing and the progression of the media stream broadcast, while taking in to account delays in the start of the broadcast and commercial breaks.

In conjunction with controlling availability of the media object or set of media objects the management unit enables one or more terminals to access the available media objects by providing 134 the requesting one or more terminals to transfer any particular available media object.

The providing step 134 further comprises presenting a user interface to the one or more terminals, which user interface lists the set of media objects, which may be generated by the

managing device as a response to a request from the one or more terminals such as accomplished by a user of a terminal depressing a hotkey for capturing a media stream moment, as described with reference to figure 3. By depressing the hotkey the user navigates to a web page or starts a particular application. The user interface presents a specific list for a specific terminal, which specific list comprises media objects, which are readable by said specific terminal. Hence the user interface is dynamic in relation to the one or more terminals.

For example, if the management unit knows that the specific terminal only supports PNG images the user interface does not present available GIF images.

Furthermore, the list may comprise presently unavailable media objects that will be available in the future and/or previously available media objects, which presently are unavailable. Alternatively, if only one media object is available at any time the user interface may direct the user to directly transfer the media object omitting listing alternatives.

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The user/users of the one or more terminals are subsequently asked whether a purchase of a media object is requested during a purchase? step 136. The media object may have a price, which subsequently to the user transferring the media object is charged to the user. If the user does not wish to purchase a media object, the method 120 is terminated in termination step 138.

On the other hand if the user wishes to purchase a media object of the list of media objects the method 120 moves to transfer the chosen media object during a transfer step 140. When the chosen media object is transferred to the user the transaction is recorded and processed by a separate transaction processing

device such as the billing device as described with reference to figure 3. The transaction may be accomplished in a wide variety of ways such as micro-payment, charging against user account or operating billing.

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When the media object is transferred to the user's terminal it may be identified by the terminal by its format or supporting application (e.g. through MIME type mapping). This initial identification may further reveal which type of potential use is allowed. That is, additional rights and limitations may be 10 attached to the media object (e.g. the user's ability to forward the media object to others may be limited). Hence, when a specific user of a terminal purchases a certain media object, which is transferred to the terminal, the media object includes privileges describing rights and limitations in use or copying of the media object.

Claims

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- 1. A system for delivering a media object to one or more terminals, which media object is associated with a media stream broadcasted to one or more media stream receivers, said system comprising:
 - (a) a broadcasting network for connecting to said one or more media stream receivers;
- (b) a first communications network for connecting to said one or more terminals; and
 - (c) a communication device connecting to said broadcasting network and broadcasting said media stream to said one or more media stream receivers, and connecting to said communications network and communicating said media object to said one or more terminals.
 - 2. A system according to claim 1, wherein said media stream comprises a television and/or radio transmitted show, drama, movie, sports game, news, or any combination thereof.
 - 3. A system according to claims 1 or 2, wherein said media object comprises a text, a picture, a series of pictures, a video, a series of videos, an audio recording, a series of audio recordings, or any combination thereof.
 - 4. A system according to any of claims 1 to 3, wherein said terminal comprises a phone, a cellular or mobile phone, a personal computer, television, a set top box, a multimedia terminal, a personal office assistant or any combination thereof.

5. A system according to any of claims 1 to 4, wherein said one or more media stream receivers comprise a set top box, multimedia terminal, television receiver, television, radio receiver or any combination thereof.

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- 6. A system according to any of claims 1 to 5, wherein said communication device broadcasts to said one or more media stream receivers by a cable television network, a satellite television network, a radio frequency television network, a telephone network, a powerline network, a radio network or any combination thereof.
- 7. A system according to claim 6, wherein said communication device is adapted to transmit digitally coded communication such as digital video broadcasting and/or digital audio broadcasting.
 - 8. A system according to any of claims 1 to 7, wherein said first communications network comprises a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone network, or any combination thereof.
- 9. A system according to any of claims 1 to 8, wherein said
 25 communication device comprising a broadcasting unit for
 broadcasting said media stream to said one or more media stream
 receivers, a management unit for providing said media object to
 said one or more terminals, and a second communications network
 for interconnecting said broadcasting unit and said management
 unit.
 - 10. A system according to claim 9, wherein said broadcasting unit comprises a marker for generating a media stream

identification tag associated to said media stream, which media stream identification tag comprises information regarding duration of said media stream, lapsed time of said media stream, broadcasting schedule for said media stream, broadcasting channel for said media stream, or any combination thereof.

11. A system according to claims 9 or 10, wherein said broadcasting unit is adapted to perform a continuous communication of data regarding said media stream information tag, an updating communication of revision of specific data regarding said media stream information tag, a communication based on schedule of said media stream, or any combination thereof.

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- 12. A system according to any of claims 9 to 11, wherein said management unit comprises an application program interface for receiving said media object, a database for storing said media object and said media stream identification tag, a real time publishing interface for enabling real time publishing of said media object, and a user interface for providing said one or more terminals access to select said media object stored in said database through said first communications network.
- 25 13. A system according to claim 12, wherein said user interface is adapted to respond to a request from said one or more terminals and to generate a media object list of media objects, which are accessible for said one or more terminals.
- 30 14. A system according to any of claims 9 to 13, wherein said second communications network comprises local area network, metropolitan area network, wide area network, or inter-network

such as the Internet, a dedicated communication line, or any combination thereof.

- 15. A system according to any of claims 1 to 14 further comprises a billing unit for managing billing transactions for said one or more terminals' requests for said media object and for generating invoices to said one or more terminals in accordance with said billing transactions.
- 10 16. A system according to claim 17 further comprises a third communications network for interconnecting said billing unit and said management unit and a fourth communications network for interconnecting said billing unit and said one or more terminals.

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- 17. A system according to claim 16, wherein said third and fourth communications network comprises local area network, metropolitan area network, wide area network, or inter-network such as the Internet, a dedicated communication line, a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone network, or any combination thereof.
- 18. A system according to any of claims 1 to 17, wherein said communication device broadcasting said media stream and said media object through said broadcasting network and wherein said one or more media stream receivers connecting to said first communications network and communicating said media object to said one or more terminals.

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19. A method for delivering a media object to one or more terminals, which media object is associated with a media stream

broadcasted to one or more media stream receivers, and said method comprising:

- (a) associating said media object with said media stream by means of a communication device;
- (b) broadcasting said media stream to said one or more media stream receivers through a broadcasting network by means of said communication device; and
 - (c) communicating said media object to a requesting terminal of said one or more terminals through a communications network by means of said communication device.
- 20. A method according to claim 19 further comprises defining a parameter for said media object by means of said communication device and said parameter defining a media object format such as audio, video, image, or any combination thereof, a technical format, an alternative task such as full view or close-up, a terminal requirement, or any combination thereof.
- 20 21. A method according to claims 19 or 20 further comprises packaging a set of media objects associated with said media stream and publishing said set of media objects to said one or more terminals by means of said communication device.
- 25 22. A method according to claim 21, wherein said packaging comprises linking said media object to said media stream so that said media object is attached to a broadcasting time line of said media stream and defining the availability of said media object in accordance with said broadcasting time line of said media stream.
 - 23. A method according to claims 21 or 22, wherein said packaging further comprises defining a media object based on a

key moment of said media stream as an elapsed time from the start of the media stream, defining the media object's availability prior, during and after broadcast of said media stream, defining an additional time period during which said media object's availability is announced but not available for transfer, or any combination thereof.

- 24. A method according to any of claims 19 to 23 further comprises managing said set of media objects by means of said communication device, and said managing comprises controlling availability of each media object of said set of media objects in accordance with said broadcast time line for said media stream.
- 25. A method according to claim 24 further comprises providing said one or more terminals access to said available media objects and enabling a requesting terminal of said one or more terminals to transfer any specific available media object.
- 20 26. A method according to claim 25, wherein said providing comprises presenting an interface to said one or more terminals, which interface lists said set of media objects.
- 27. A method according to any of claims 19 to 26 further
 25 comprises generating a media object by means of said communication device in response to a request from said one or more terminals.
- 28. A method according to claim 27, wherein said request is accomplished by a user of a terminal depressing a hotkey for capturing a key moment of said media stream.

29. A method according to any of claims 26 to 28, wherein said interface presents a specific list for a specific terminal, which specific list comprises a media object, which is readable by said specific terminal.

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- 30. A method according to any of claims 19 to 29 further comprises purchasing said media object from said communication device by means of said one or more terminals, by purchasing said media object said media object is transferred to said one or more terminals.
- 31. A method according to claim 30 further comprises recording and processing of said transfer of said media object to said one or more terminals by means of a transaction processing device.
- 32. A method according to claims 30 or 31 further comprises identifying said media object format by means of said one or more terminals, said identifying revealing information such as supporting application needed, additional rights pertaining to said media object, forwarding limitations associated with said media object, or any combination thereof.
- 33. A method according to any of claims 19 to 32, further

 comprising providing privileges associated with said media
 object and with said one or more terminals, which privileges
 enable said one or more terminals to copy or forward said media
 object in accordance with each of said one or more terminals'
 number of purchases of said media object and/or which

 privileges disable said one or more terminals to copy or
 forward said media object and/or which privileges disable said
 one or more terminals to copy or forward more than said one or
 more terminals' number of purchases.

34. A method according to any of claims 19 to 33, wherein said method further incorporates any features of the system according to any claims 1 to 18.

Abstract

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This invention relates to a system and method for delivering a media object associated with a media stream broadcasted from a communication device to a broadcast receiving unit such as a personal computer, a multimedia terminal, a television receiver, a television, or any type of radio receiver, to a terminal such as a phone, a cellular or mobile phone, a personal computer, a television, or a personal office assistant (figure 1).

